

## **Launch Mission Execution Forecast**

Falcon 9 Starlink 4-5 Mission:

Issued: 4 Jan 2022 / 0830L (1330Z)

Valid: 6 Jan 2022 / 1649 – 1847L (2149 – 2347Z)



Forecast Discussion: Winds will become onshore today, moderating temperatures across Central Florida and bringing a slight chance for a short-lived coastal shower. On Wednesday a wave will push north over the Space Coast, increasing cloud coverage and rain chances late. The unsettled weather is pulled away through the day Thursday as a low pressure system moves north towards the Atlantic Coast. This will make way for another area of high pressure to build in, slowly clearing the cloud cover and instability over the Spaceport. The primary weather concern for a Thursday launch attempt is the Cumulus Cloud Rule.

On Friday, high pressure area continues to build into the area, creating gusty northerly winds at the Spaceport. The primary weather concerns for a Friday launch attempt remain the Cumulus Cloud Rule with the addition of Liftoff Winds.

ıch Day	Probability of Violating Weather Constraints								
	20% Primary Concerns: Cumulus Cloud Rule								
	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visi	bility:	None / 7 mi.	Туре	Cloud: Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ľ	Temp/Humid	ity:	72°F / 66%	Cumulus	Few	3,000	8,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	360° 8 - 12 mph	Altostratus	Few	12,000	15,000	Solar Activity:	Low
	Probability of Violating Weather Constraints								
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Jelay	30%	Prim	ary Concerns: Cum	ulus Cloud R	ule, Liftoff V	Vinds			
	30%	Prim	•	ulus Cloud R	·	Vinds		Additional Risk Cr	iteria
-Hour Delay	30% Weather/Visi		•		·		Tops (ft)	Additional Risk Cri	i <b>teria</b>
24-Hour Delay		bility:	Weathe	r Condition	S Clouds	S	Tops (ft) 8,000		

Next Forecast Will Be Issued 5 Jan 2022